## In the Claims

Please amend the claims as follows:

1. (Currently Amended) A polishing composition for use in polishing for forming wiring in a semiconductor device, the polishing composition comprising eharacterized by containing:

colloidal silica,
an acid,
an anticorrosive,
a completely saponified polyvinyl alcohol, and
water.

- 2. (Currently Amended) The polishing composition according to Claim 1, eharacterized by further comprising containing an oxidizing agent.
- 3. (Currently Amended) The polishing composition according to Claim 1-or 2, eharacterized in that wherein the colloidal silica has an average particle size of 0.01 to 0.5 μm.
- 4. (Currently Amended) The polishing composition according to Claim 1 any one of Claims 1 to 3, characterized in that wherein the colloidal silica includes a first colloidal silica having an average particle size of 0.05 μm or more and 0.3 μm or less, and a second colloidal silica having an average particle size of 0.01 μm or more and less than 0.05 μm.
- 5. (Currently Amended) The polishing composition according to Claim 1 any one of Claims 1 to 4, characterized in that wherein the acid includes at least one kind selected from nitric acid, hydrochloric acid, sulfuric acid, lactic acid, acetic acid, oxalic acid, citric acid, malic acid, succinic acid, butyric acid and malonic acid.

6. (Currently Amended) A method for polishing an object, the method characterized by using the polishing composition according to any one of Claims 1 to 5 in order to form wiring (17) in a semiconductor device, the method comprising:

preparing a polishing composition including colloidal silica, an acid, an anticorrosive, a completely saponified polyvinyl alcohol, and water; and using the polishing composition to polish the object to form wiring.

7. (Currently Amended) A method for polishing an object to form wiring (17) in a semiconductor device, wherein the object has a barrier layer (14) and a conductive layer (15) in this order on an insulating layer (12) having a trench (13), and the barrier layer and the conductive layer have a portion positioned outside the trench and a portion positioned inside the trench, respectively, the method comprising characterized by:

Preparing a polishing composition including colloidal silica, an acid, an anticorrosive, a completely saponified polyvinyl alcohol, and water; and

removing the portion of the conductive layer positioned outside the trench and the portion of the barrier layer positioned outside the trench by chemical mechanical polishing using the polishing composition according to any one of Claims 1 to 5 to expose an upper surface of the insulating layer.

8. (Currently Amended) A method for polishing an object to form wiring (17) in a semiconductor device, wherein the object has a barrier layer (14) and a conductive layer (15) in this order on an insulating layer (12) having a trench (13), and the barrier layer and the conductive layer have a portion positioned outside the trench and a portion positioned inside the trench, respectively, the method comprising characterized by:

removing a part of the portion of the conductive layer positioned outside the trench by chemical mechanical polishing to expose an upper surface of the barrier layer, and

removing the remaining part of the portion of the conductive layer positioned outside the trench and the portion of the barrier layer positioned outside the trench by chemical mechanical polishing to expose an upper surface of the insulating layer,

wherein a first polishing composition is used in the chemical mechanical polishing to remove a part of the portion of the conductive layer positioned outside the trench, and a second polishing composition is used in the chemical mechanical polishing to remove the remaining part of the portion of the conductive layer positioned outside the trench and the portion of the barrier layer positioned outside the trench, and

the first polishing composition includes a surfactant, a silicon oxide, a carboxylic acid, an anticorrosive, an oxidizing agent and water, the surfactant including at least one kind selected from the compounds represented by general formulae (1) to (7) below and salts thereof;

in the general formula (1),  $R^1$  represents an alkyl group having 8 to 16 carbon atoms,  $R^2$  represents a hydrogen atom, a methyl group, or an ethyl group,  $R^3$  represents an alkylene group having 1 to 8 carbon atoms,  $-(CH_2CH_2O)_1$ -,  $-(CH_2CH(CH_3)O)_m$ -, or a combination of at least two kinds thereof, when  $R^3$  represents  $-(CH_2CH_2O)_1$ - or  $-(CH_2CH(CH_3)O)_m$ -, 1 and m are an integer of 1 to 8, when  $R^3$  represents the combination of  $-(CH_2CH_2O)_1$ - and  $-(CH_2CH(CH_3)O)_m$ -, the sum of 1 and m is an integer of 8 or less,  $X^1$  represents a carboxyl group or a sulfone group;

in the general formulae (2) and (3),  $R^4$  represents an alkyl group having 8 to 16 carbon atoms, Z is a functional group represented by the chemical formula (i) or (ii) below,  $Y^1$  represents -(CH<sub>2</sub>CH<sub>2</sub>O)<sub>n</sub>-, -(CH<sub>2</sub>CH(CH<sub>3</sub>)O)<sub>p</sub>-, or a combination of -(CH<sub>2</sub>CH<sub>2</sub>O)<sub>n</sub>- and -(CH<sub>2</sub>CH(CH<sub>3</sub>)O)<sub>p</sub>-, when  $Y^1$  represents -(CH<sub>2</sub>CH<sub>2</sub>O)<sub>n</sub>- or -(CH<sub>2</sub>CH(CH<sub>3</sub>)O)<sub>p</sub>-, n and p are an integer of 1 to 6, when  $Y^1$  represents the combination of -(CH<sub>2</sub>CH<sub>2</sub>O)<sub>n</sub>- and -(CH<sub>2</sub>CH(CH<sub>3</sub>)O)<sub>p</sub>-, sum of n and p is an integer of 6 or less,  $X^2$  represents a phosphoric acid group or a sulfone group; and

in the general formulae (4) to (7), each of  $R^5$  and  $R^6$  represents a hydrogen atom, a hydroxyl group, or an alkyl group having 8 to 16 carbon atoms, each of  $Y^2$  and  $Y^3$  represents -(CH<sub>2</sub>CH<sub>2</sub>O)<sub>q</sub>-, -(CH<sub>2</sub>CH(CH<sub>3</sub>)O)<sub>r</sub>-, or a combination of -(CH<sub>2</sub>CH<sub>2</sub>O)<sub>q</sub>- and - (CH<sub>2</sub>CH(CH<sub>3</sub>)O)<sub>r</sub>-, when  $Y^2$  or  $Y^3$  represents -(CH<sub>2</sub>CH<sub>2</sub>O)<sub>q</sub>- or -(CH<sub>2</sub>CH(CH<sub>3</sub>)O)<sub>r</sub>-, q and r are an integer of 1 to 6, when  $Y^2$  or  $Y^3$  represents the combination of -(CH<sub>2</sub>CH<sub>2</sub>O)<sub>q</sub>- and -(CH<sub>2</sub>CH(CH<sub>3</sub>)O)<sub>r</sub>-, the sum of q and r is an integer of 6 or less, and

the second polishing composition <u>includes colloidal silica</u>, an acid, an anticorrosive, a completely saponified polyvinyl alcohol, and water, and general formulae

(1) to (7), (i) and (ii) are as follows: is the polishing composition according to any one of Claims 1 to 5.

$$R^{1}-C-N-R^{3}-X^{1} \cdots (1)$$

$$0 R^{2}$$

$$R^{4}-Z-Y^{1}-X^{2} \cdots (2)$$

$$R^{5}-0-Y^{2}-C-CH_{2}-CH-C-Y^{3}-0-R^{6} \cdots (4)$$

$$0 SO_{3}H 0$$

$$R^{5}-0-Y^{2}-C-CH_{2}-CH-C-0-R^{6} \cdots (5)$$

$$0 SO_{3}H 0$$

$$R^{5}-0-C-C-CH_{2}-CH-C-Y^{3}-0-R^{6} \cdots (6)$$

$$0 SO_{3}H 0$$

$$R^{5}-0-C-C-CH_{2}-CH-C-Y^{3}-0-R^{6} \cdots (6)$$

$$0 SO_{3}H 0$$

$$R^{5}-0-C-C-CH_{2}-CH-C-C-0-R^{5} \cdots (7)$$

$$0 SO_{3}H 0$$

$$-\bigcirc -\cdots (i)$$

- 9. (Currently Amended) The method according to Claim 8, characterized in that wherein the carboxylic acid in the first polishing composition is an  $\alpha$ -amino acid.
- 10. (Currently Amended) The method according to Claim 8-or 9, characterized in that wherein the anticorrosive in the first polishing composition is a benzotriazole derivative represented by general formula (8):

$$\bigotimes_{\substack{N \\ | \\ R'}} N \cdots (8)$$

in the general formula (8), R<sup>7</sup> represents an alkyl group having a carboxyl group, an alkyl group having a hydroxyl group and a tertiary amino group, an alkyl group having a hydroxy group, or an alkyl group other than those.

11. (Currently Amended) A method for polishing an object to form wiring (17)-in a semiconductor device, wherein the object has a barrier layer (14)-and a conductive layer (15)-in this order on an insulating layer (12)-having a trench-(13), and the barrier layer and the conductive layer have a portion positioned outside the trench and a portion positioned inside the trench, respectively, the method characterized by comprising:

removing a part of the portion of the conductive layer positioned outside the trench by chemical mechanical polishing to expose an upper surface of the barrier layer, and

removing the remaining part of the portion of the conductive layer positioned outside the trench and the portion of the barrier layer positioned outside the trench by chemical mechanical polishing to expose an upper surface of the insulating layer,

wherein a first polishing composition is used in the chemical mechanical polishing to remove a part of the portion of the conductive layer positioned outside the trench, and a second polishing composition is used in the chemical mechanical polishing to remove the remaining part of the portion of the conductive layer positioned outside the trench and the portion of the barrier layer positioned outside the trench,

the first polishing composition includes an  $\alpha$ -amino acid, a benzotriazole derivative, a silicon oxide, a surfactant, an oxidizing agent and water, the benzotriazole derivative is represented by general formula (8):

$$\bigcirc N \\
N \\
N \\
R'$$
(8)

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in the general formula (8), R<sup>7</sup> represents an alkyl group having a carboxyl group, an alkyl group having a hydroxyl group and a tertiary amino group, an alkyl group having a hydroxyl group, or an alkyl group other than those, and

the second polishing composition <u>includes colloidal silica</u>, an acid, an <u>anticorrosive</u>, a completely saponified polyvinyl alcohol, and water is the polishing composition according to any one of Claims 1 to 5.